

## Fabry-Perot Etalons

SLS Optics is a market leader in design and manufacture of Fabry-Perot etalons. We employ the most sophisticated manufacturing techniques and testing procedures and retain full control of all production stages as we do not subcontract any of the processes.

Our bespoke commissioned software allows us to test quality performance of a finished assembled etalon before shipment and we measure individual parts throughout the manufacturing process. We have extensive software facilities for calculating theoretical performance of etalons in customer specified conditions of use.

When it comes to etalons, most of our customers have unique requirements. Please [contact us](#) to discuss what we can do for you. Alternatively, you may wish to download our [etalon specification form](#).

### We offer

- Custom design to suit your specification and product application
- OEM quantities with call-off management facility
- Substantial stock of standard etalon plates and spacers for quick assembly and dispatch

### Technology Capabilities

- Air-spaced (ASE) and solid etalons (including deposited etalons)
- Plate material: Fused Silica
- Spacer material: low thermal expansion materials – Schott Zerodur® or Corning ULE®
- 2mm to 100mm diameter clear aperture
- FSR 2.5GHz to 30,000GHz (ASE)
- Air Gap 5µm to 60mm
- FSR 1.5GHz to 5,000GHz (Solid)
- Solid thickness 20µm to 70mm
- $>\lambda/200$  matched plate flatness @ 633nm
- $>\lambda/100$  parallelism @ 633nm
- Thin film coatings from 193nm to 2000nm
- Option of hermetically sealed cavities

All etalons are supplied resiliently mounted in a cell designed to provide maximum protection and freedom from stress. Customer design options are available.

